

ABSTRACT OF THE DISCLOSURE

From power supply potential wiring to ground potential wiring, a first inductor, a first resistance, a first output
5 terminal, and a first transistor are series-connected in this order, and in parallel with these, a second inductor, a second resistor, a second output terminal, and a second transistor are series-connected in this order. And, one electrode of a first variable capacitor is connected between
10 the first inductor and first resistor, and one electrode of a second variable capacitor is connected between the second inductor and second resistor. The other electrodes of the first variable capacitor and second variable capacitor are connected to a first frequency characteristics control
15 terminal and a second frequency characteristics control terminal, respectively. In addition, drains of the first transistor and second transistors are connected to the first output terminal and second output terminal, respectively, sources of the same are connected to a drain of a third
20 transistor, and gates of the same are connected to a first input terminal and a second input terminal, respectively. Furthermore, a gate of the third transistor is connected to a bias terminal, and a source of the same is connected to the ground potential wiring.